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PPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/607,373		06/26/2003	Jeffery H. Banning	D/A3152	5161
25453	7590	09/14/2004		EXAMINER	
PATENT I		ENTATION CENT	AULAKH, CHARANJIT		
			SQUARE, 20TH FLOOR	ART UNIT	PAPER NUMBER
ROCHESTER, NY 14644				1625	
				DATE MAILED: 09/14/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No	D. 1	Applicant(s)				
	10/607,373		BANNING ET AL.				
Office Action Summary	Examiner		Art Unit				
	Charanjit S. A	ulakh	1625				
The MAILING DATE of this communication a Period for Reply	appears on the cov	er sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by stated Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, hore reply within the statutory mod will apply and will expire tute, cause the application	wever, may a reply be tim- ninimum of thirty (30) days e SIX (6) MONTHS from t to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).				
Status							
1) Responsive to communication(s) filed on							
	_						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde			•				
Disposition of Claims							
4)⊠ Claim(s) <u>1-105</u> is/are pending in the applicat	tion						
4a) Of the above claim(s) is/are withd		eration.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-105</u> is/are rejected.							
7) Claim(s) is/are objected to.	•						
8) Claim(s) are subject to restriction and	l/or election requir	ement.					
Application Papers			·				
9)⊠ The specification is objected to by the Examin	ner						
10) The drawing(s) filed on is/are: a) a		niected to by the F	vaminer				
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the corre			• •				
11) The oath or declaration is objected to by the							
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreig	an priority under 2	5115C \$ 110(a)	(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	gn phonty under 3	5 0.5.C. § 119(a)-	(a) or (i).				
1. Certified copies of the priority docume	nts have been rec	eived					
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bure			and Hational Otago				
* See the attached detailed Office action for a lis			I .				
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🗀	Interview Summary (F	PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 3. 	8) 5) 6	Paper No(s)/Mail Date	e tent Application (PTO-152)				
S. Patent and Trademark Office TOL-326 (Rev. 1-04) Office A	Action Summary	Part	of Paper No./Mail Date 20040903				

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DETAILED ACTION

1. Claims 1-105 are pending in the application.

Specification

2. The abstract of the disclosure is objected to because it is too long. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-105 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1-105, the point of attachment of metal to chromogen moieties is not defined. Is it attached to the hetero ring atom Y, directly to the carbon atom of aryl rings or substituted carbon, nitrogen or oxygen atom etc?

In claims 1, 10 and 105, the term ---metal-containing moiety--- is indefinite since this moiety is not defined and furthermore, the point of attachment of metal to the chromogen moieties is not defined.

In claims 1, 10 and 105, where variables R1 and R2 or R3 and R4 are joined together to form a ring, the size of the ring, number and types of heteroatoms present in the ring are not defined.

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In claims 1, 10 and 105, for the values of variables R1-R4, the term ---wherein R1, R2, R3 and R4 can each be joined to a phenyl ring in the central structure---- is vague and indefinite since its meaning is not clear.

In claims 1, 10 and 105, for the values of variables R5-R7, the term ---wherein R5, R6, and R7 can each be joined to a phenyl ring in the central structure---- is vague and indefinite since its meaning is not clear.

In claims 1, 10 and 105, the applicants use same variable Y to define positive charge as well as to define it as a C, O, S or N atom in the tricyclic ring. It is confusing. The applicants are suggested to use separate letters. Also, variable z is listed twice in the first formula on page 202, once to represent the number of chromogen moieties and in addition, it is also listed with anion A. Is it same or different z?

Claims 29 and 30 recite the limitation "heteroatom" in claim 20. There is insufficient antecedent basis for this limitation in the claim.

Claims 34 and 35 recite the limitation "heteroatom" in claim 31. There is insufficient antecedent basis for this limitation in the claim.

Claims 39 and 40 recite the limitation "heteroatom" in claim 36. There is insufficient antecedent basis for this limitation in the claim.

Claims 44 and 45 recite the limitation "heteroatom" in claim 41. There is insufficient antecedent basis for this limitation in the claim.

In claim 48, it is not clear which phenyl ring is being reffered here.

Claim 88 is substantial duplicate of claim 86. It appears that claim 88 should depend upon claim 87. An appropriate correction is required.

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prepare the instant compounds.

Allowable Subject Matter

5. The following is a statement of reasons for the indication of allowable subject matter: The instant compounds directed to metal attached chromogen moieties are allowable over the prior art since they are neither disclosed nor obvious over the prior art. In the prior art, Nagai (U.S. Patent no. 5,514,208) discloses similar compounds (see columns 5-8) when Y represents O in the instant claims. However, the compounds of Nagai lack metal ions attached to these compounds and furthermore, there is no teaching, suggestion or motivation in the prior art to modify the compounds of Nagai to

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charanjit S. Aulakh whose telephone number is (571)272-0678. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on (571)272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Charanjit S. Aulakh Primary Examiner Art Unit 1625